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| **Name** | **1.2.1.3 Semester Plan** |
| **Purpose** | The why we have it in our design |
| **Description** | Creates semester plans that align in the closest way with the user’s Time of Day (TOD) and Day of Week (DOW) preferences while capturing class data, location data, professor data, and more. |
| **Requirements** | Requirements 9, 14, 16 |
| **Elements** | 1.2.1.3.1 createSemesterPlans: Will create all the semester plans that match the users TOD and DOW preferences. |
| 1.2.1.3.2 getMajorClassCodes: Will retrieve all the course codes required for a major using the user’s major. |
| 1.2.1.3.3 getNewClassCodes: Will compare the user’s taken classes with the required classes and return all class codes for classes the user has not taken. |
| 1.2.1.3.4 createSectionObjects: Will create a list of objects representing all the sections offered for a given course using the course code. Will only include sections fitting TOD and DOW preference. |
| 1.2.1.3.5 getSectionData: Will take a course code and retrieve the data for all offered sections of that course. |
| 1.2.1.3.6 isInTime: Will return a bool representing whether or not the section is within TOD and DOW preference range. |
| 1.2.1.3.7 getProfessorData: Will return the RateMyProfessor data of a professor by their name and department. |
| **Referenced By** | 1.2.1 Algorithm Component |
| **Viewpoint** | Structure Chart |